

(19)



Europäisches Patentamt

European Patent Office

Office européen des brevets



(11)

EP 0 918 258 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
08.03.2000 Bulletin 2000/10

(51) Int. Cl.⁷: **G03G 5/05**, **G03G 5/147**,
G03G 5/07

(43) Date of publication A2:
26.05.1999 Bulletin 1999/21

(21) Application number: 98121522.1

(22) Date of filing: 13.11.1998

(84) Designated Contracting States:
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE
Designated Extension States:
AL LT LV MK RO SI

(30) Priority: 21.11.1997 US 976218

(71) Applicant: Xerox Corporation
Rochester, New York 14644 (US)

(72) Inventors:
• Fuller, Timothy J.
Pittsford, New York 14534-4023 (US)
• Teuscher, Leon A.
Williamsville, New York 14221 (US)

• Pai, Damodar M.
Fairport, New York 14450 (US)
• Yanus, John F.
Webster, New York 14580 (US)
• Carmichael, Kathleen M.
Williamson, New York 14589 (US)
• Grabowski, Edward F.
Webster, New York 14580 (US)
• Zukoski, Paul F.
Henrietta, New York 14467 (US)

(74) Representative:
Grünecker, Kinkeldey,
Stockmair & Schwanhäusser
Anwaltssozietät
Maximilianstrasse 58
80538 München (DE)

(54) **Imaging members with charge transport layers containing high performance polymer blends**

(57) Disclosed is an imaging member which comprises a conductive substrate, a photogenerating material, a charge transport material, and a polymeric binder comprising (a) a first polymer comprising a polycar-

bonate, and (b) a second polymer of the formulae I, II, III, IV, V, VI, VII, VIII, IX, or X as further defined herein.

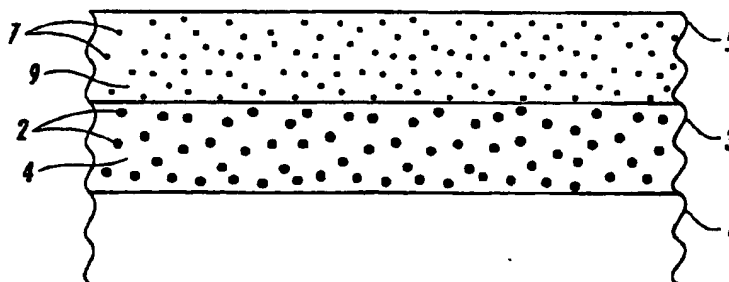


FIG. 1

EP 0 918 258 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 98 12 1522

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
Y	EP 0 501 455 A (FUJI) 2 September 1992 (1992-09-02) * claims 1-8 *	1	G03G5/05 G03G5/147 G03G5/07
Y	--- PATENT ABSTRACTS OF JAPAN vol. 13, no. 73 (P-830) [3421], 20 February 1989 (1989-02-20) & JP 63 259571 A (ASAHI), 26 October 1988 (1988-10-26) * abstract *	1	
Y	--- WD 93 24861 A (AGFA-GEVAERT) 9 December 1993 (1993-12-09) * claims 1,8 *	1	
A	--- EP 0 458 651 A (MATSUSHITA) 27 November 1991 (1991-11-27) * claim 1 *	1	
A	--- US 4 933 244 A (L.A.TEUSCHER) 12 June 1990 (1990-06-12) * claims 1,19 *	1	TECHNICAL FIELDS SEARCHED (Int.Cl.6) G03G

-The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 13 September 1999	Examiner VANHECKE H.
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ----- & : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			

EPO FORM 1503 03.02 (P04C01)



European Patent
Office

Application Number

EP 98 12 1522

CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- ☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

- ☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
- ☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- ☒ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

1-8,9(partial:from page 169 to page 170,paragraph 1),10



European Patent
Office

LACK OF UNITY OF INVENTION
SHEET B

Application Number

EP 98 12 1522

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims: 1-8, 9 (partial: from page 169 to page 170, paragraph 1), 10

Imaging member comprising a polycarbonate and a polymer containing a -phenyl-(-A)-x--phenyl-O-B- group (see formulae I to X in claim 1, A and B being defined on pages 162-167)

2. Claims: 9 partial: from page 170, paragraph 2 to page 189 end

Imaging member comprising a polycarbonate and a polymer containing: -D-O-B-O- groups, wherein B the same as in previous subject and D: a perfluorinated diphenyl-group or a perfluorinated benzophenone group

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 98 12 1522

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

13-09-1999

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 501455 A	02-09-1992	JP 4271356 A	28-09-1992
JP 63259571 A	26-10-1988	NONE	
WO 9324861 A	09-12-1993	DE 69316616 D	26-02-1998
		DE 69316616 T	16-07-1998
		EP 0643845 A	22-03-1995
		JP 7507160 T	03-08-1995
		US 5529867 A	25-06-1996
EP 458651 A	27-11-1991	JP 4029245 A	31-01-1992
		JP 4029246 A	31-01-1992
		JP 4029247 A	31-01-1992
		JP 4174852 A	23-06-1992
		JP 4174853 A	23-06-1992
		JP 4174854 A	23-06-1992
		DE 69101338 D	14-04-1994
		DE 69101338 T	01-09-1994
		US 5304444 A	19-04-1994
US 4933244 A	12-06-1990	CA 2004493 A,C	03-07-1990
		DE 4000085 A	05-07-1990
		GB 2226650 A,B	04-07-1990
		JP 2228673 A	11-09-1990

